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36736 DUKÉ W. YEI	7590 12/07/2007 ∃		EXAMINER	
YEE & ASSOCIATES, P.C. P.O. BOX 802333			STEELMAN, MARY J	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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•	Application No.	Applicant(s)	11 (		
Office Action Comments	10/800,067	JURKIEWICZ ET	AL.		
Office Action Summary	Examiner	Art Unit			
	MARY STEELMAN	2191			
The MAILING DATE of this communication apperiod for Reply	opears on the cover sheet with the c	orrespondence a	ddress		
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory perio  - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION  1.136(a). In no event, however, may a reply be tind  d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 28	September 2007.				
2a)⊠ This action is <b>FINAL</b> . 2b)☐ Th	is action is non-final.				
3) Since this application is in condition for allow closed in accordance with the practice under			e merits is		
Disposition of Claims					
4) ⊠ Claim(s) 1-4,6-12 and 14-20 is/are pending i 4a) Of the above claim(s) is/are withdr 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-4,6-12 and 14-20 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and	awn from consideration.				
Application Papers					
9) The specification is objected to by the Examin					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the					
Priority under 35 U.S.C. § 119					
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	nts have been received.  nts have been received in Applicat iority documents have been receive eau (PCT Rule 17.2(a)).	ion No ed in this Nationa	ıl Stage		
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)	4)	ate			
Paper No(s)/Mail Date	6) Other:				

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#### **DETAILED ACTION**

- 1. This Office Action is in response to Amendments to the Claims and Specification, and Remarks received 09/28/2007. Per Applica;nt's request, claims 5 and 13 have been cancelled. Claims 1-4, 6-12, and 14-20 are pending.
- 2. The amendment to the Specification has been entered.
- 3. The amendment to the Abstract must be resubmitted on a single sheet of paper.

## Claim Rejections - 35 USC § 112

4. In view of the amendments to claims 4, 12, and 20, the prior 35 U.S.C. 112, second paragraph rejections are hereby withdrawn.

## Claim Rejections - 35 USC § 101

5. In view of the amendments to claims 17-20, the prior 35 U.S.C. 101 rejections are hereby withdrawn.

#### Response to Arguments

- 6. Applicant's arguments filed 09/28/2007 have been fully considered but they are not persuasive. Applicant has argued, in substance, the following:
- (A) Regarding independent claims, as noted on page 10, last paragraph, "neither Baisley nor Sluiman discloses creating an XSL template-match fragment that includes said at least one difference between said content of said one UML document of said plurality of UML documents

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and said content of said second UML document of said plurality of UML document" or "transforming a format of said one UML document to a format of said second UML document.

### Examiner's Response:

### Examiner disagrees:

Baisley disclosed a relationship between UML objects in a repository (Col. 2: 37-43) and XML objects, including the ability to identify differences and synchronize the differences between object models represented in different forms. Baisley disclosed (col. 2: 45) tracking changes to repository objects (UML objects) made by an external UML editing tool. Col. 6: 24-26, differences between the XML objects and the repository objects are identified.

Baisley disclosed relating an XML object to an UML object, to maintain versioning, track changes (col. 2: 56).

Baisley failed to disclose determining the difference between the content of a first and second UML document, and creating a fragment including said difference.

However, Sluiman disclosed [0063], XSL transforms used to reconcile complex data models in the XML metalanguage. A data expander is capable of interpreting XSL Transforms. [0093], Reconciled data sets A' and B' (reconcile differences) are placed into C', a correct version of the divergent aspect (differences)...necessary for the purpose of obtaining metalanguage fragments for copying into fundamental data set C'. [0095], fundamental data expander 50 expands these

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reconciled aspects (differences) into corresponding metalanguage within new complex data model C. ([0003], metadata schema and data instances are referred to as complex data models.) [0034], a first transform is a set of instructions that controls which divergent aspects of the complex data models are to be extracted. If the received complex data models are in the XML metalanguage and the data extractor is capable of interpreting Extensible Stylesheet Language (XSL) Transforms (XSLTs), the transform may be an XSLT.

Furthermore, it is noted the Baisley incorporated by reference USPN 6,330,569 providing more details of the process depicted in #45 & #46 (identify differences between XML objects and repository objects / update repository objects to match XML objects). Baisley '569 disclosed(col. 3: 9-15) identifying differences between UML objects in said UML model and XML objects in said XML file / reserving said one of said UML objects as an identical ghost object / updating properties of said ghost object to (with template match fragment) match properties of said one of said corresponding XML objects.

Baisley disclosed (col. 3: 56-57, "identifying UML objects in the repository with objects in an XML file. Baisley disclosed (col. 6: 21-31, repository objects (UML objects) corresponding to XML objects, including matching or difference values. The format of the nonmatching repository object (UML object) is updated to match the corresponding XML object (transforming a format of said one UML document to a format of said second UML document.)

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(B) Regarding claims 7 & 8, Applicant has argued that office fails to disclose configuration settings for an older version / attribute settings for an older version.

### Examiner's Response:

Examiner disagrees. Examiner points to Col. 9: 10-27, A repository model is made up of a package, comprises classes, and XML model is made up of a package, comprises classes... Every object in the XML file will have a corresponding Conversion object and those conversion objects will either have a repository ID (configuration settings) that identifies the corresponding repository object, or in the case where the is no corresponding object – NEW OBJECT will be set to TRUE. The repository ID and the XMI ID, settings that are used by the Conversion object. See FIG. 13.

#### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 6,408,311 B1 to Baisley et al., in view of US Patent Application Publication 2002/0194220 A1 to Sluiman.

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Per claims 1, 9, and 17:

A method / apparatus / computer program product in a computer readable medium for creating an Extensible-Style Language Transformation (XSLT) document from a plurality of Unified Modeling Language (UML) model documents or Extensible Markup Language (XML) schemas created from the plurality of UML model documents, the method comprising the steps of:
-providing a plurality of UML documents;

-determining at least one difference between a content of one UML document of said plurality of UML documents and a content of a second UML document of said plurality of UML documents;

-creating an XSL template-match fragment that includes said at least one difference between said content of said one UML document of said plurality of UML documents and said content of said second UML document of said plurality of UML documents.

-transforming a format of said one UML document to a format of said second UML document.

Baisley disclosed a relationship between UML objects in a repository (Col. 2: 37-43) and XML objects, including the ability to identify differences and synchronize (using a template match fragment) the differences between object models represented in different forms. Baisley disclosed (col. 2: 45) tracking changes to repository objects (UML objects) made by an external UML editing tool. Col. 6: 24-26, differences between the XML objects and the repository objects are identified.

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Baisley disclosed relating an XML object to an UML object, to maintain versioning, track changes (col. 2: 56).

Baisley failed to explicitly disclose determining the difference between the content of a first and second UML document, and creating a fragment including said difference.

However, Sluiman disclosed [0063], XSL transforms used to reconcile complex data models in the XML metalanguage. A data expander is capable of interpreting XSL Transforms. [0093], Reconciled data sets A' and B' (reconcile differences) are placed into C', a correct version of the divergent aspect (differences)...necessary for the purpose of obtaining metalanguage fragments for copying into fundamental data set C'. [0095], fundamental data expander 50 expands these reconciled aspects (differences) into corresponding metalanguage within new complex data model C. ([0003], metadata schema and data instances are referred to as complex data models.) [0034], a first transform is a set of instructions that controls which divergent aspects of the complex data models are to be extracted. If the received complex data models are in the XML metalanguage and the data extractor is capable of interpreting Extensible Stylesheet Language (XSL) Transforms (XSLTs), the transform may be an XSLT.

Therefore, it would have been obvious, to one of ordinary skill in the art, at the time of the invention, to modify Baisley, to include the teachings of Sluiman, because Baisley recognized the need (col. 2: 26-31) for generating format descriptions to expedite interchange of metadata

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among repositories and modeling tools, automating the production of an XML DTD for meta models (schema document).

Per claims 2, 10, and 18:

-the providing, determining and creating steps comprise the steps of:

-providing a plurality of XML schema documents from said plurality of UML documents;

Baisley disclosed related UML objects and XML objects.

Sluiman disclosed:

-determining at least one difference between a content of one XML schema document of said plurality of XML schema documents and a content of a second XML schema document of said plurality of XML schema documents;

-creating an XSL template-match fragment that includes said at least one difference between said content of said one XML schema document of said plurality of XML schema documents and said content of said second XML schema document of said plurality of XML schema documents.

Sluiman: [0046], The received complex data models are metadata schema (content of XML schema document) or data instances. [0048], data extraction represents divergent aspects of complex data models A and B....are metalanguage files in the complex data model domain. [0052], is converted to corresponding metalanguage file comprising fundamental data set C', a metalanguage compilation of the favored versions of each divergent aspect, represents a

transformation of the reconciliation. [0034], The first transform may be an XSL transform. C', the result of the original input reconciled data sets, is [0053] expanded into its full complex data model equivalent. [0063], the second transform may also be an XSL Transform.

Therefore, it would have been obvious, to one of ordinary skill in the art, at the time of the invention, to modify Baisley, to include the teachings of Sluiman, because Baisley recognized the need (col. 2: 26-31) for generating format descriptions to expedite interchange of metadata among repositories and modeling tools, automating the production of an XML DTD for meta models (schema document).

Per claims 3, 11, and 19:

Baisley failed to explicitly disclose:

-filtering out at least one non-difference from said content of said one UML document of said plurality of UML documents;

-adding said at least one difference to said content of said second UML document of said plurality of UML documents.

However, Sluiman disclosed, as an example, [0078], ID information is extracted...despite the fact that it is not divergent...to facilitate reconciliation in the semantic domain.

Therefore, it would have been obvious, to one of ordinary skill in the art, at the time of the invention, to modify Baisley, to include the teachings of Sluiman, because Baisley recognized

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the need (col. 2: 26-31) for generating format descriptions to expedite interchange of metadata among repositories and modeling tools, automating the production of an XML DTD for meta models (schema document).

Per claims 4, 12, and 20:

Baisley failed to explicitly disclose:

-the filtering and adding steps comprise the steps of:

-filtering out at least one non-difference from said content of said one XML schema document of said plurality of XML schema documents;

-adding said at least one difference to said content of said second XML schema document of said plurality of XML schema documents.

However, Sluiman disclosed, as an example, [0078], ID information is extracted...despite the fact that it is not divergent...to facilitate reconciliation in the semantic domain. Filtering out ID information to be used to facilitate reconciliation. [0079], the generated fundamental data sets A' and B' include aspects of the received models that are to be differenced and merged (adding said at least one difference to said content) during the immediate reconciliation, as well as non-divergent (non-difference) aspects usable to facilitate reconciliation.

Therefore, it would have been obvious, to one of ordinary skill in the art, at the time of the invention, to modify Baisley, to include the teachings of Sluiman, because Baisley recognized the need (col. 2: 26-31) for generating format descriptions to expedite interchange of metadata

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among repositories and modeling tools, automating the production of an XML DTD for meta

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models (schema document).

Per claims 6 & 14:

-said plurality of UML documents comprises two UML documents.

Baisley: See FIG. 3, repository objects (UML objects in repository, col. 2: 38).

Per claims 7 & 15:

-said content of said one UML document comprises configuration settings for an older version of

a product, and said content of said second UML document comprises configuration settings for a

newer version of said product.

Baisley: If a parsed XML object does not have a matching repository object (UML object) then

a new version of the repository object will be created. Col. 9: 10-27, A repository model is made

up of a package, comprises classes, and XML model is made up of a package, comprises

classes...Every object in the XML file will have a corresponding Conversion object and those

conversion objects will either have a repository ID (configuration settings) that identifies the

corresponding repository object, or in the case where the is no corresponding object – NEW

OBJECT will be set to TRUE.

Per claims 8 & 16:

-said content of said one UML document comprises a plurality of attributes for an older version

of a product, and said content of said second UML document comprises a plurality of attributes

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for a newer version of said product.

Baisley: Col. 9: 10-25, If an object in the XML file does not have a corresponding repository ID (does not have a newer version, only has an older version) a new object is created for the corresponding repository.

#### Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mary Steelman, whose telephone number is (571) 272-3704. The examiner can normally be reached Monday through Thursday, from 7:00 AM to 5:30 PM If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wei Zhen can be

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reached at (571) 272-3708. The fax phone number for the organization where this application or

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proceeding is assigned: 571-273-8300.

Any inquiry of a general nature or relating to the status of this application should be directed

to the TC 2100 Group receptionist: 571-272-2100.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mary Steelman

11/29/2007

MARY STEELMAN My Stuhn